

Setting up MongoDB

1. After signing up to the service and logging in navigate to Organisations and select 'New Project'.
2. Choose a name for the project in this case (TheWriteWay), choose 'access permissions', the owner has default access and then 'Create Project'.
3. Now choose the 'Build a database' option and choose the 'shared – free' option. Choose AWS and your nearest geographical location, in this case Ireland.

Now we can accept the default below and click 'Create' cluster – this takes a few minutes.

The screenshot shows the MongoDB Atlas cluster configuration interface. It consists of three main sections, each with a title on the left and a value on the right with an expand/collapse arrow. The first section is 'Cluster Tier' with the value 'M0 Sandbox (Shared RAM, 512 MB Storage)' and 'Encrypted' below it. The second section is 'Additional Settings' with the value 'MongoDB 4.4, No Backup'. The third section is 'Cluster Name' with the value 'Cluster0'. At the bottom, there is a 'FREE' badge, a paragraph of text explaining the free tier, a 'Back' link, and a green 'Create Cluster' button.

Cluster Tier M0 Sandbox (Shared RAM, 512 MB Storage) ^{Encrypted} ^

Additional Settings MongoDB 4.4, No Backup ^

Cluster Name Cluster0 ^

FREE Free forever! Your M0 cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime. [Back](#) **Create Cluster**

4. Choose 'Connect to Cluster' and add connection ip of 0.0.0.0, now create at least 1 user that is allowed to access the Cluster.

2 Create a Database User

The screenshot shows the 'Create Database User' form in MongoDB Atlas. It includes a message stating that the first user will have 'atlasAdmin' permissions. Below this, there is a prompt to keep credentials handy. The form has two input fields: 'Username' with the value 'admin' and 'Password' with the value 'r00tUser'. There is an 'Autogenerate Secure Password' button and a 'HIDE' button next to the password field. A green 'Create Database User' button is at the bottom right.

This first user will have **atlasAdmin** permissions for this project.

Keep your credentials handy, you'll need them for the next step.

Username admin **Password** r00tUser [Autogenerate Secure Password](#) [HIDE](#)

Create Database User

5. Now choose the 'Connection Method' and the option to 'Connect your Application'. Select the Driver as Python and the version in this case as 3.6 after verifying from the terminal in GitPod that this is the correct version of python.(version 3.8 is installed)

Connect to Cluster0

✓ Setup connection security > ✓ Choose a connection method > Connect

1 Select your driver and version

DRIVER	VERSION
Python	3.6 or later

2 Add your connection string into your application code

☐ Include full driver code example

```
mongodb+srv://admin:<password>@cluster0.dhqa.mongodb.net/myFirstDatabase?
retryWrites=true&w=majority
```

Replace **<password>** with the password for the **admin** user. Replace **myFirstDatabase** with the name of the database that connections will use by default. Ensure any option params are [URL encoded](#).

Having trouble connecting? [View our troubleshooting documentation](#)

Go Back

Close

- Copy the connection string to be used later in your code, substitute **<password>** for the password of the admin user you setup in the previous screen, and replace **myFirstDatabase** with the name of your database we will setup in step 8.
- mongodb+srv://admin:r00tUser@cluster0.dhqa.mongodb.net/theWriteWay?retryWrites=true&w=majority
- Choose collections and 'add my own data', choose a relevant name for the DB and the collection and click create.

Create Database

Database name ?

theWriteWay

Collection name ?

shortStories

Additional Preferences

☐ Capped Collection ?

Cancel

Create

- Now we can setup some test data as needed by choosing 'insert document'. This completes the initial setup of MongoDB.